## PATENT COOPERATION TREATY

From the

1	TIONAL SEARCHING	AUTHORITY	,			
To: JENNIFER K. ROSENFIELD EDWARDS & ANGELL, LLP				PCT		
				rcı		
P.O. BOX 55874						
BOSTO	N, MA 02205		W	WRITTEN OPINION OF THE		
ļ			INTERNATI	ONAL SEARCHING AUTHORITY		
			(PCT Rule 43bis.1)			
			Date of mailing (day/month/year) 13 MAY 2005			
Applicant's or agent's file reference			FOR FURTHER ACTION			
61383-PC			See paragraph 2 below			
Internatio	nal application No.	International filing date	(day/month/year)	day/month/year) Priority date (day/month/year)		
PCT/US04/16419 24 May 2004 (24 05 2)		24 May 2004 (24.05.20	04)	23 May 2003 (23.05.2003)		
Internatio	nal Patent Classification (	IPC) or both national classification	tion and IPC	1 (2.03.2003)		
IPC(7): C	12Q 1/00; A61K 39/00; A	01N 61/00 and US Cl.: 424/18	4.1; 435/4; 514/1			
Applicant						
JOHNS H	IOPKINS UNIVERSITY					
1. This	opinion contains indication	ns relating to the following item	10.			
		of the opinion	10.			
	Box No. II Priority					
n	The remainder of opinion with regard to noverty, inventive step and industrial applicability					
$\boxtimes$		Lack of unity of invention				
	Box No. V Reason application	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
닏	Box No. VI Certain	Certain documents cited				
	Box No. VII Certain	n defects in the international app	plication			
الا	Box No. VIII Certain observations on the international application					
2. <b>FUR</b> ?	THER ACTION					
If a de	emand for international p	reliminary examination is mad	le this opinion will	be considered to be a written opinion of the		
Intern	ational Preliminary Exam	nining Authority ("IPEA") ex	cept that this does	not apply where the applicant changes on		
International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.						
IPEA	opmion is, as provided a written reply together, v	bove, considered to be a writt where appropriate, with amends	en opinion of the IP	EA, the applicant is invited to submit to the		
IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing from PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.						
For further options, see Form PCT/ISA/220.						
3. For further details, see notes to Form PCT/ISA/220.						
Name and n	nailing address of the ISA	/US	Authorized-officer			
M	ail Stop PCT, Attn: ISA/US		1 1 2			
Commissioner for Patents P.O. Box 1450			Patrick J. Noland	you fick Joh 1		
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nm PC I/IS	A/237 (cover sheet) (Janu	ary 2004)		<del></del>		

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/16419

Box N	o. I Basis of this opinion				
1. With was f	regard to the language, this opinion has been established on the basis of the international application in the language in which it iled, unless otherwise indicated under this item.				
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).				
2. With inven	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed tion, this opinion has been established on the basis of:				
8.	type of material				
	a sequence listing				
	table(s) related to the sequence listing				
ъ.	format of material				
	in written format				
. •	in computer readable form				
c.	time of filing/furnishing				
	contained in international application as filed.				
	filed together with the international application in computer readable form.				
	furnished subsequently to this Authority for the purposes of search.				
,					
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.				
4. Additional comments:					
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orm PCT/	ISA/237(Box No. I) (January 2004)				

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/16419

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement  1. Statement						
						Novelty (N)
	Claims 1					
Inventive step (IS)	Claims 2-38	YES				
mvam ve step (13)	Claims 1					
Industrial applicability (IA)	Claims 1-38					
	Claims NONE					
2. Citations and explanations:		<del></del>				
Claim 1 lacks novelty under PCT Article 33(2) as b	eing anticipated by Bjorkegren et al.					
Bjorkegren teaches the association of increased ApoCI levels with increased atherosclerosis and as compared to controls non-atherosclerotic men. Atherosclerosis is known to be a risk factor for atherosclerosis-associated plaque rupture or myocardial infraction.  The prior art teachings anticipate the claimed invention.						
Claims 2-38 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the association of ApoCI levels with increased apoptosis of aortic smooth muscle cells.						
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Claims 1-38 meet the criteria set out in PCT Article be made or used in industry.	33(4), and thus meet industrial applicability bec	ause the subject matter claimed can				
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Form PCT/ISA/237 (Box No. V) (Jamary 2004)						